2017

IMPALA MUNICIPAL 1FL

8/28/16

About This Publication

This catalog is not updated during the model year and should not be used for ordering purposes. It is intended as a source of basic information. All illustrations and specifications in this literature are based on the latest product information available at the time of publication. General Motors reserves the right to make changes at any time without notice. For further details, consult your local dealer.

Care must be taken during customer installation of equipment and wiring to ensure that all holes drilled in the body are corrosion protected, properly sealed and that vehicle wiring harnesses, piping or other components have not been displaced or damaged. Aftermarket equipment installers must be mindful of applicable Federal Motor Vehicle Safety Standards. This information can be obtained directly from the National Highway Traffic Safety Administration.

Adding non-dealer accessories or making modifications to the vehicle can affect vehicle performance, aerodynamics, and overall top speed.

These vehicles are equipped with an air bag system. The air bag system in your police vehicle includes frontal driver and passenger air bags, front seat back side impact air bags, front knee air bags or knee bolsters and side curtain air bags. Customer installed equipment such as security barriers behind the front seats should not be mounted so that the barrier ends are within the side air bag deployment zones. The sensors and other components for the air bag system must not be relocated to accommodate the installation of customer furnished equipment; please refer to the service manual for sensor and other component locations. For information concerning instrument panel top pad mounted equipment and air bag system deployment zones, see the air bag information section in this catalog and the vehicle owners manual.

A note about vehicle alterations by independent suppliers: This catalog shows pictures of vehicles that have been altered or upfitted with equipment or components supplied to Chevrolet or its dealers by independent suppliers. Chevrolet is not responsible for the safety or quality of design features, materials or workmanship of any alterations by a supplier.

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INDEX

- UPDATES FOR 2017 IMPALA 1FL
- STANDARD FEATURES
- POWERTRAIN & EMISSIONS
- COLORS & INTERIOR TRIM
- OPTIONAL EQUIPMENT
- SPECIFICATIONS
- AIRBAG & STABILITRAK
- WARRANTY

UPDATES FOR 2017

NEW FEATURES

- **Optional (LFX) Engine, 3.6L DOHC V6 DI with Variable Valve Timing and E85 Flex Fuel capability.**

The Impala, Model 1GX69 (1FL) is NOT designed nor intended for HIGH SPEED EMERGENCY VEHICLE OPERATIONS.

STANDARD IMPALA 1FL INTERIOR FEATURES

AIR BAGS[1]	10 total, frontal and knee for driver and front passenger, side-impact seat-mounted and roof rail for front and rear outboard seating positions, includes Passenger Sensing System.
AIR CONDITIONING	Single zone air conditioning electronic
ARMREST	Rear center seat
ASSIST HANDLES	Driver, front passenger and rear outboard
AUDIO SYSTEM	AM/FM stereo and auxiliary input jack, 6-speaker sound system with 100-watt amplifier. Includes Sirius XM Satellite Radio 3-month all access trial subscription.
AUDIO SYSTEM FEATURES	4.2" diagonal color infotainment display, USB port, 1 located in center console SIRIUS XM SATELLITE RADIO 3-month All Access trial subscription with over 150 channels including commercial-free music, plus sports, news and entertainment. Plus listening on the app and online is included, so you'll hear the best SiriusXM has to offer, anywhere life takes you. IMPORTANT: The SiriusXM Satellite Radio trial package is not provided on vehicles that are ordered for Fleet Daily Rental ("FDR") use. If you decide to continue service after your trial, the subscription plan you choose will automatically renew thereafter and you will be charged according to your chosen payment method at then-current rates. Fees and taxes apply. To cancel you must call us at 1-866-635-2349. See our Customer Agreement for complete terms at www.siriusxm.com. All fees and programming subject to change. Includes 6-speaker system 100-watt
BLUETOOTH FOR PHONE[2]	Personal cell phone connectivity to vehicle audio system
CONSOLE	Floor storage compartment (without cover) and transmisson shift lever
CRUISE CONTROL	Electronic with set and resume speed
DRIVER INFORMATION CENTER	Color display, includes trip/fuel information, vehicle information and vehicle messages
FLOOR MATS, CARPETED	Front and rear
HEAD RESTRAINTS	2-way adjustable (up/down), front, 2-way adjustable rear
HEADLAMP CONTROL	Automatic on and off, projector beam in front of halogen
INSTRUMENTION	Analog with speedometer, tachometer, engine temperature and fuel gauge with color Driver Information Center
LATCH SYSTEM	Lower Anchors and Top tethers for children, for child safety seats
LIGHTING	Interior with theater dimming, delayed entry/exit, glovebox and trunk
MAP POCKETS	Driver and front passenger seatbacks
MIRROR	Inside rearview manual day/night
MIRRORS	Outside power-adjustable, Black, manual-folding with Black mirror caps
ONSTAR[3]	OnStar Basic Plan for 5 years, includes limited vehicle mobile app features, Monthly Diagnostics Report and Dealer Maintenance Notification". "Basic Plan available for 5 years from the date of vehicle delivery and is transferable. Does not include Emergency, Security or Navigation services. NOTE: Activation of an OnStar account requires the request of customer to initiate once vehicle is received
ONSTAR GUIDANCE[4]	"OnStar Guidance Plan for a limited time period. Includes Automatic Crash Response, Stolen Vehicle Assistance, Roadside Assistance, Turn-by-Turn Navigation, Advanced Diagnostics and more (trial excludes Hands-Free Calling)". Visit www.onstar.com for coverage map, details and system limitations. Services vary by model. OnStar acts as a link to existing emergency service providers. Not all vehicles may transmit all crash data.
ONSTAR WITH 4G LTE[5]	"OnStar 4G LTE and built-in Wi-Fi hotspot connects to the Internet at 4G LTE speeds; includes OnStar Data Trial for 3 months or 3GB (whichever comes first)". Visit www.onstar.com for coverage map, details and system limitations. Services vary by model. OnStar acts as a link to existing service providers. Not all vehicles may transmit all crash data. Available Wi-Fi requires compatible mobile device, active OnStar service and data plan. Data plans provided by ATandT.".
POWER OUTLETS	2, auxiliary, 12-volt, located on front of console and inside console
REMOTE KEYLESS ENTRY	Includes panic alarm button
SAFETY BELTS	3-point all positions with Driver and Front Passenger belt pretensioners
SEATS, FRONT	Buckets with Driver 8-way power includes power lumber, Passenger 4-manual
SEAT, REAR	60/40 split-folding
STEERING COLUMN	Manual tilt and telescoping
STEERING WHEEL CONTROLS	Audio and cruise controls
THEFT	Theft deterrent system
TRANSMISSION SHIFT LEVER	Floor mounted in console
USB PORT	Located in center console
VISORS	Driver and front passenger illuminated vanity mirrors
WINDOWS	Power windows with driver express-up, down on all windows

1. Always use safety belts and child restraints. Children are safer when properly secured in a rear seat in the appropriate child restraint. See the Owner's Manual for more information.
2. Full functionality requires compatible Bluetooth and smartphone. Some devices require USB connectivity. Map coverage available in United States, U.S. Virgin Islands, Puerto Rico and Canada.
3. Does not include emergency or security services. Visit onstar.com for coverage map, details and system limitations
4. Visit onstar.com for coverage map, details and system limitations
5. Requires a compatible mobile device, active OnStar service and data plan. 4G LTE service available in select markets. Visit onstar.com for coverage map, details and system limitations.

STANDARD IMPALA 1FL EXTERIOR FEATURES

DAYTIME RUNNING LAMPS	Integrated into headlamps
DOOR HANDLES	Body-color
DEFOGGER	Rear window
GLASS	Tinted windshield, Acoustic windshield and front side glass
HEADLAMPS	Projected beam halogen
MIRRORS	Outside rearview power adjustable, Manual folding, Black
TIRES	P235/50R18 all-season, blackwall
TIRE,SPARE	Compact T125/70R17
WHEELS	18" (45.7 cm) steel with fascia-spoke wheel covers
WHEEL, SPARE	Compact 17" (43.2 cm) steel
WINDSHIELD WIPERS	Intermittent

STANDARD IMPALA 1FL CHASSIS FEATURES

ALTERNATOR	150 amps
BATTERY	730 amps (SAE Rating) with standard I4 Engine (615 amps (SAE Rating) with optional V6 Engine)
AXLE	3.23 ratio (2.77 ratio with optional 3.6L V6 Engine)
BRAKE, PARK	Electronic push button powered, located on instrument panel left of steering wheel
BRAKES	4-Wheel antilock, 4-Wheel Disc, Duralife rotors with corrosion-resistant technology and Brake Assist feature. Designed to assist the driver in stopping or decreasing vehicle speed in emergency driving conditions
BODY	Unitized body with high-strength steel forming a rigid structure around the passenger compartment
COOLING	The cooling system is filled with DEX-COOL® engine coolant. This coolant is designed to remain in the vehicle for 5 years or 240 000 km (150,000 mi), whichever occurs first. If coolant is needed use a 50/50 mixture of clean, drinkable water and DEX-COOL coolant. If using this mixture, nothing else needs to be added. This mixture: • Gives freezing protection down to –37 °C (–34 °F), outside temperature. • Gives boiling protection up to 129 °C (265 °F), engine temperature. • Protects against rust and corrosion. • Will not damage aluminum parts. • Help keep the proper engine temperature.
ENGINE	ECOTEC 2.5L DOHC 4-cylinder DI with Variable Valve Timing (VVT) and auto stop/start, 197 hp [146.2 kW] @ 6300 rpm, 191 lb-ft of torque [251.1 N-m] @ 4400 rpm
EXHAUST	Dual stainless-steel with hidden turned down tips (Dual outlet stainless-steel with bright tips integrated in fascia with optional (LFX) 3.6L V6 engine)
HILL START ASSIST	This feature may be useful when the vehicle is stopped on a grade. This feature is designed to temporarily prevent the vehicle from rolling, either forward or rearward, during vehicle drive off.
STEERING	Power, variable assist, electric
STABILITRAK	Stability control system, includes Traction control
SUSPENSION, FRONT	MacPherson strut: twin-tube dampers with gas-charge valving: 28.5mm hollow direct-acting stabilizer bar; hydraulic ride bushing
SUSPENSION, REAR	Multillink with coil springs and stabilizer bar; gas-charged twin-tube dampers
TIRE PRESSURE MONITORING	Message displays when the pressure in one or more of the vehicle's tires is low. Excludes spare tire
TOOL KIT	Road emergency

POWERTRAIN

ENGINE				TRANSMISSION		AXLE	
OPTION CODE	TYPE	DISPLACEMENT LITERS/CU. IN.	FUEL SYSTEM	OPTION CODE	TYPE	OPTION CODE	RATIO
Standard LCV	I4	2.5 DOHC	DI, VVT with Auto. Stop/Start	MHG	6 Speed	F82	3.23
Optional LFX	V6	3.6 DOHC	DI, VVT with Flex Fuel[1]	M7W	6 Speed	D70	2.77

EMISSIONS - MUST BE SPECIFIED

FE9	**EMISSIONS.** Federal requirements
YF5	**CALIFORNIA EMISSIONS.** California state requirements
NE1	**EMISSIONS.** Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington state requirements
NB8	**EMISSIONS OVERRIDE**. California (allows a dealer in states that require California emissions - California, Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island or Washington - to order Federal emissions for a vehicle that will be registered in a state that has Federal emission requirements). Do not use for vehicles that will be registered in California, Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island or Washington. **Requires (FE9) Federal emissions requirements. Not available in Maine or Vermont.**
NB9	**EMISSIONS OVERRIDE**. State-specific (for dealers ordering vehicles in (YF5) or (NE1) emission states - California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington). **Allows a California dealer (YF5 emissions) to order (NE1) emissions with (NB9) emissions override code for registration in (NE1) states; or, a Connecticut, Delaware, Maine, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington dealer (NE1 emissions) to order (YF5) emissions with (NB9) emissions override code for registration in California.**
NC7	**EMISSIONS OVERRIDE.** Federal (for vehicles ordered by dealers in Federal emission states with (YF5) or (NE1) emissions - Not required for vehicles being shipped to California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont or Washington) **Requires (YF5) California state emissions requirements or (NE1) Connecticut, Delaware, Maine, Massachusetts, New York, Pennsylvania, Rhode Island or Vermont state emissions requirements**

TIRES

QUANTITY	SIZE	SPEED RATING	TYPE
4	P235/50R18	H (130 mph)	All Season BW

1. E85 is 85% ethanol and 15% gasoline.

SEATS AND INTERIOR TRIM

	SEAT TYPE	SEAT CODE	Jet Black/ Dark Titanium
STANDARD	Front: Buckets with Premium Cloth Rear: 60/40 split-folding	A51	HOZ

AVAILABLE EXTERIOR COLORS *Actual colors may vary*

GAN	GBA	GAZ	G1M
Silver Ice Metallic	Black	Summit White	Blue Velvet Metallic

Note: Special paint is not available

OPTIONAL EQUIPMENT & FEATURES

INTERIOR

AP9	**CARGO NET** - Convenience trunk net
AYR	**HEAD RESTRAINTS** - Rear seat adjustable, folding
PDH	**MATS , ALL-WEATHER PROTECTION PACKAGE** - Includes (VAV) Premium all-weather Black front and rear floor mats, and (VLI) Premium all-weather cargo mat
VAV	**MATS, PREMIUM ALL-WEATHER FLOOR** - Rront and rear, Included with (PDH) All-Weather Mat Protection Package
KI6	**POWER OUTLET** - 120-volt, located on the rear of center console. Requires (LCV) 2.5L engine.
VLI	**MAT, PREMIUM ALL-WEATHER CARGO, BLACK** - Included with (PDH) All-Weather Mat Protection Package
BTV	**REMOTE STARTER** - Remote vehicle starter system

EXTERIOR

VAT	**GRILLE, BODY COLOR SURROUND** - Requires exterior color (GAN) Silver Ice Metallic, (G1M) Blue Velvet Metallic or (GBA) Black.
VK3	**LICENSE PLATE BRACKET** - Front, Included on orders with ship-to states that require a front license plate.
VKU	**MIRROR CAPS** - Chrome
SB2	**REAR SPOILER** - Requires exterior color (GAN) Silver Ice Metallic, (G1M) Blue Velvet Metallic, (GAZ) Summit White or (GBA) Black.
VQK	**SPLASH GUARDS** - Front and rear
UD7	**PARK ASSIST** - Rear park assist

CHASSIS

LFX	**ENGINE** -3.6L DOHC V6 DI with Variable Valve Timing (VVT) (305 hp [227.4 kW] @ 6800 rpm, 264 lb-ft of torque [356.4 N-m] @ 5200 rpm), Includes E85 FlexFuel capability with (FE9) Federal emissions or (YF5/NE1 and NC7) California emissions with the Federal override only.
R9Y	**FLEET FREE MAINTENANCE CREDIT** - This option code provides a credit in lieu of the free oil changes, tire rotations and inspections (2 maximum), during the first 24 months and 24,000 miles period for this ordered vehicle. The invoice will detail the applicable credit. The customer will be responsible for all oil change, tire rotations and inspections costs for this vehicle. Requires one of the following Fleet or Government order types: FBC, FBN, FCA, FCN, FLS, FNR, FRC or FGO. Not available with FDR order types.
K05	**HEATER** -Engine block
AI3	**SEO SHIP THRU** - Produced in Oshawa Assembly and shipped to Kerr Industries Oshawa, ON. Returned to Oshawa Assembly for shipping to final destination. (Dealer Invoice = $100.00).

SPECIFICATRIONS

GENERAL

Model	1GX69 (1FL)
Drive	Front
Seating	2/3

EXTERIOR (in./mm)

Wheelbase	111.7/2837
Overall length	201.3/5113
Overall width (with out mirrors)	73.0/1854
Body width (with mirrors)	84.26/2141
Overall height*	58.9/1496
Front track width	62.2/1580
Rear track width	62.0/1575
Turning circle (ft./mm)	38.8/11.75
Ground clearance*	5.9/151
Air intake height	20.2/514

FRONT COMPARTMENT *(in./mm)*

Head room	39.9/1013
Shoulder room	57.9/1471
Hip room	54.9/1394
Leg room	45.8/1163

REAR COMPARTMENT *(in./mm)*

Head room	37.4/950
Shoulder room	56.9/1445
Hip room	54.1/1374
Leg room	39.8/1011

PASSENGER COMPARTMENT VOLUME INDEX *(cu.ft./liters)*

EPA passenger compartment volume index	105/2973

TRUNK COMPARTMENT VOLUME *(cu.ft./liters)*

Trunk volume	18.8/532.4

FUEL ECONOMY RATINGS

EPA Estimated[3]	*CITY/HIGHWAY/COMBINED*
2.5L engine	22/30/25
3.6L engine	19/28/22

EPA label values, actual mileage will vary with options, driving conditions, driving habits and vehicle condition.

VEHICLE WEIGHT *(lbs./kg.)*

	STANDARD	*OPTIONAL*
Type	I4	V6
GVWR[5] estimated	4672.5	4778.0
Base curb weight[10]	3674.4	3787.8
Payload[6]		
(includes 5 passengers and space saver spare tire)	943.6	943.6

NOTE: See your vehicle tire and loading information label for specific weight values. See your owner's manual supplement for proper cargo loading distribution

3. EPA-estimated MPG.
5. Gross Vehicle Weight Rating
6. These maximum payload ratings are intended for comparison purposes only. Before you buy a vehicle or use it to haul people or cargo, carefully review the vehicle loading section of the Owner's Manual and check the carrying capacity of your specific vehicle on the label on the inside of the driver's door jamb
7. Adding non dealer accessories or making modifications to the vehicle can affect vehicle performance, aerodynamics, and overall top speed.
10. Base curb weight with 100% fuel, fluids and standard base equipment (excludes optional content)

* Published dimensions indicated are at Base Curb Weight

SPECIFICATRIONS

ENGINE

	STANDARD	OPTIONAL
Type	I4	V6
Displacement: liters/cu. in.	2.5/150	3.6/217
Horsepower/rpm	197@6300	305@6800
Torque lb.-ft./rpm	191@4400	264@5200
Induction system	DI	SIDI
Compression ratio	11.25:1	11.5:1
Exhaust	Dual	Dual
Minimum recommended fuel octane	87	87
Fuel tank capacity (gallons/liters)	18.5/70	17.5/66.2
Oil with filter (quarts/liters)	5.0/4.7	6.0/5.7
Cooling capacity (quarts/liters)	7.8/7.4	9.9./9.4

TRANSMISSION

Automatic electronically controlled	6 Speed
Fluid pan removed & filter replaced (quarts/liters)	7.4/7.0

AXLE

	STANDARD	OPTIONAL
Ratio	3.23	2.77

BRAKES

ABS	Disc/Disc
Type -	Split, dual-circuit wheel disc with power assist
Front - swept area (sq. in./sq. cm)	283/718.8
Rear - swept area (sq. in./sq. cm)	207/525.8
Total front and rear swept area (sq. in./sq. cm)	490/1244.6
Front rotor diameter vented (in./mm)	12.6/321
Rear rotor diameter solid (in./mm)	10.9/277
Front rotor thickness (in./mm)	1.2/30
Rear rotor thickness (in./mm)	0.9/23

TIRES

Type	All Season, Blackwall, H-Rated
Size	P235/50R18

WHEELS

Type	Steel with Fasica Spoke Wheel Covers
Size	18"

CHASSIS

Frame	Unitized body
Engine cradle	Aluminum
Front suspension	MacPherson strut: twin-tube dampers with gas-charge valving: 28.5mm hollow direct-acting stabilizer bar; hydraulic ride bushing
Rear suspension	Multillink with coil springs and stabilizer bar; gas-charged twin-tube dampers
Steering type	Electric variable-assist rack-and-pinion (belt-driven with V6 engine, dual pinion with I4 engine) with Pull Drift Compensation
Steering ratio (center)	15.2:1
Steering wheel turns, lock-to-lock	2.73

BATTERY

	I4 Engine	V6 Engine
Type	Maintenance Free	Maintenance Free
Description	Absorbent glass mat (AGM)	Flooded lead acid (FLA)
Volts	12	12
Amp hour	80	70
Cold cranking-amps (SAE Rating)	730	615
Reserve capacity (minutes)	140	110

ALTERNATOR

Amps	77°F (25°C)	150

AIRBAGS & STABILITRAK

AIRBAG FAQ

Can specialty vehicle equipment (e.g. radar devices, video cameras, computers, meters, radio trees, shotguns, etc.) still be mounted in cars with passenger side airbags?

Yes, but care must be taken to mount the equipment outside of the deployment zone. Airbags inflate with great force and will interact with any object in the deployment zone. Therefore, to reduce the risk of injury to vehicle occupants, GM recommends that the air deployment zone be kept free of any equipment. If a piece of equipment were to become dislodged it could strike an occupant in the vehicle and result in injury. The likelihood of an object becoming dislodged is influenced by many factors, including the proximity of the object to the inflatable restraint, the size and shape of the object, and the means by which the object is secured to the vehicle. In addition to these factors, the trajectory and velocity of a dislodged object can be influenced by the type and severity of vehicle crash.

Objects that are in the deployment zone, but do not become dislodged by an inflating airbag can still affect the performance of the airbag. For example, such objects could tear the fabric or affect the shape of the airbag, thus reducing the ability of the bag to provide restraint.

Is it possible to shield equipment that is installed in the passenger side frontal airbag deployment zone in a manner that will allow full and safe airbag deployment?

Due to the complexity of influencing variables, GM is unable to evaluate the potential for shielding expected equipment configurations in all accident scenarios in order to assure that the airbag performance would be unaffected. While shielding may protect certain equipment from being damaged or dislodged, it may also negatively affect the inflation characteristics of the airbag. The airbag's shape, inflation angle, fold pattern, and inflation rate and pressure are developed to maximize the protection capability of the inflatable restraint system. Therefore, GM cannot recommend the placement of any equipment in the deployment zone, even if it is shielded to protect it from damage.

Front airbag systems and instrument panel mounted equipment.

Passenger airbags in GM vehicles deploy in different ways depending upon the type of vehicle and the particular instrument panel design.

In some vehicles, the passenger airbag deploys through a discrete door located on the top surface of the instrument panel (top-mount airbag systems). In other vehicles, the passenger airbag deploys through a discrete door mounted on the vertical rearward surface of the instrument panel, above the glove box door (mid-mount airbag system). With these types of top mount and mid-mount passenger airbag systems, the top pad of the instrument panel remains in place during deployment.

Some GM passenger airbag systems deploy from beneath the instrument panel top pad. These are considered 3/4-mount airbag systems with a "deployable top pad." The entire instrument panel top pad is the "deployment door" from under which the inflating airbag emerges. When an airbag deployment is commanded, the forces from the inflating passenger airbag push up on the instrument panel top pad, releasing special fasteners across the rearward edge of the top pad. This allows the top pad to rotate upward so that the passenger airbag may emerge. The top pad rotates upward to open widest at the right hand side, and is usually forced upward into contact with the windshield on the right hand side of the vehicle during a deployment.

Instrument panel top mounted special equipment, such as a radar antenna and control unit or video camera must be positioned to the left of the vehicle center line. This equipment must be mounted as low as possible and securely fastened to the top pad to avoid being dislodged in the event of a crash and possible airbag deployment. In the process of securely fastening special equipment to the top, DO NOT fasten down the top pad itself to any other vehicle component such as the cluster trim plate. As described above, the top pad rotates upward during a deployment. In order to enable the proper deployment of the passenger airbag, specialty equipment installation MUST NOT PREVENT the top pad from rotating upward during deployment. Location and attachment of special equipment should minimize added resistance or interference to upward rotation of the top pad during deployment.

On the right half of the top pad closest to the passenger airbag module, GM recommends that no equipment be mounted. When mounting equipment on the driver side of the top pad, GM recommends that the total mass of the top pad mounted special equipment not exceed 8 pounds (3.6 kilograms), since some top pads tend to rotate about the left end.

Fasteners used to secure special equipment to the instrument panel top pad, the windshield glass, or to the windshield upper frame (header), should be selected to ensure that these devices will remain attached during a vehicle crash and possible airbag deployment.

Side-Impact Airbags for crashes to the vehicle sides.

The airbag system in your police vehicle includes roof rail mounted Head Curtain side airbags. The vehicle is also equipped with seat back mounted upper body airbags located on the outboard side of the driver and front passenger seat backs. Together the Head Curtain and seat-mounted side airbags are intended to protect the head and upper body in the event of a side crash. The Head Curtain and seat-mounted side airbags also may be commanded to deploy in the event that the vehicle sensing system detects an impending or underway rollover of the vehicle. Some vehicles may also be equipped with an optional airbag, mounted on the inboard side of the driver seat back.

Can Specialty Vehicle Security Barriers be mounted within the side airbag deployment zones?

No. The side airbags inflate extremely fast because of the nature of side crashes to the vehicle. Mounting a security barrier behind the front seats with the ends placed within the side airbag deployment zones will result in unintended interaction between the barrier and the inflating side airbags. To reduce the risk of injury to the vehicle occupants, GM recommends that the side airbag zones be kept free of any customer installed equipment.

Customer furnished equipment installed to the vehicle roof.

The roof system may also include side airbag head curtain components. Inflation devices and cushion components may be mounted on the vehicle roof side from the base of the windshield along the roof rail above the door openings to the base of the rear window pillar. Care must be taken to avoid damage to these components or interference with their operation when installing roof mounted equipment such as emergency lamps and communication antennas.

Always use safety belts and the correct restraint for your child's age and size, even with air bags. Even in vehicles equipped with the Passenger Sensing System, children are safer when properly secured in a rear seat in the appropriate infant, child or booster seat. Never place a rear-facing infant restraint in the front seat of any vehicle equipped with an active frontal air bag. See the Owner's Manual and the child safety seat instructions for more safety information.

AIRBAG FAQ

Can the installation of push bumpers on the front end of the vehicle affect the deployment of the airbag?

General Motors is not aware of adverse effects during crash events from the many push bumpers that have been installed on GM police vehicles. Because there are many styles of push bumpers available with varying crash characteristics, installation of push bumpers may or may not affect deployment timing of the airbags. Push bumpers should be mounted to avoid modifying the vehicle structure and interfering with the front airbag sensors mounted on the upper radiator support cross member.

Two front impact sensors are installed in General Motors vehicles. Do not relocate or disconnect the front sensors. The location and orientation of the front sensors are critical for correct operation of the airbag system. Avoid mounting components on or near the sensors. Push bumper styles with vertical pushing members that are in foreaft alignment with the front airbag sensors are not recommended.

When should an airbag inflate?

The driver's and right-front passenger's frontal airbags are designed to inflate in moderate to severe frontal or near-frontal crashes. But they are designed to inflate only if the impact speed is above the system's designed "threshold level."

In addition, your vehicle has "dual stage" frontal airbags which tailor the amount of restraint according to crash severity. For moderate frontal impacts, the airbags inflate at a level less than full deployment. For more severe frontal impacts, "dual stage" frontal airbags deploy at full levels.

If the front of your vehicle goes straight into a wall that doesn't move or deform, the threshold level of the reduced deployment is about 12 to 16mph (19 to 15 km/h), and the threshold level for a full deployment is about 18 to 24 mph (29 to 28.5 km/h). The threshold level can vary, however, with specific vehicle design, so that it can be somewhat above or below this range.

If your vehicle strikes something that will move or deform such as a parked car, the threshold level will be higher. The driver's and right-front passenger's frontal airbags are not designed to inflate in rollover, side impacts, or rear impacts, because inflation would not help the occupant.

Seat mounted side impact airbags are designed to inflate in moderate to severe side crashes. The side impact airbags will inflate if the crash severity is above the designed "threshold level." The threshold level can vary with specific vehicles design. The side impact airbags are not designed to inflate on frontal or near-frontal impacts or rear impacts, because inflation would not help the occupant.

Roof rail mounted head-curtain airbags are designed to inflate in moderate to severe side crashes. In addition, certain vehicles have head-curtain airbags which are also designed to inflate in situations where an impending rollover condition is identified by the vehicle's rollover sensing system and/or frontal or near-frontal impacts if the crash severity is above the designed "threshold level."

Safety belt pretensioners at the driver and front passenger seat positions are designed to deploy in frontal, near-frontal, side, and rear crashes that exceed the "threshold level" of crash severity to help reduce slack in the safety belt. Safety belt pretensioners will also deploy in impending rollover situations.

How long will the airbag remain inflated?

It takes approximately 1/20th of a second to fully inflate the frontal airbags. This is faster than the blink of an eye. The airbags begin to deflate immediately, helping to stop the occupants more gradually. Unlike frontal airbags, head curtain side airbags can remain inflated for more than 5 seconds before they start to deflate

I've heard that a deployed airbag produces what appears to be smoke, is the airbag hot?

After the bag has deployed in a crash, the airbag itself will not be hot to touch. Some components within the airbag module will be hot for a short time. A small amount of smoke coming from a deployed airbag module is normal and should not be cause for concern.

Also, when the nitrogen gas is vented out of the airbag, small particles from inside the bag are also vented into passenger compartment. These airborne particles look like smoke and some particles are deposited as residue on and around the airbag.

I've heard that the dusts that are released into the passenger compartment from the airbag are harmful, is this true?

For most people, the only effect the dusts will produce is some irritation of the throat and eyes, and that is only if the occupant remains in the vehicle for many minutes after the airbag deployment with no ventilation and windows closed. However, some people with asthma may develop an asthmatic attack from inhaling the dusts. If this happens, they should first treat themselves the same way their doctor has advised them to treat any other asthma attack, and then immediately seek medical treatment.

Can the airbag system be re-used?

No. The airbags are designed to inflate only once. After inflation, some new parts will be required. These will include the airbag module and possibly other parts. (A competent service technician with access to the vehicle's service manual and the required tools should replace the required components after a deployment crash.)

If my vehicle has airbags, why should I have to wear my safety belt?

Yes, safety belts are the primary safety restraint in the vehicle. Airbags are in many vehicles today and will be in most of them in the future. But they are supplemental systems only; so they work with safety belts, not instead of them. Every airbag system ever offered for sale has required the use of safety belts. Even if you're in a vehicle that has airbags, you still have to buckle up to get the most protection. That's true not only in frontal collisions but especially in side and other collisions.

ELECTRONIC STABILITY CONTROL SYSTEMS (STABILITRAK)

StabiliTrak systems help drivers maintain control of their vehicles, especially during emergency lane changes or avoidance maneuvers. StabiliTrak uses various sensors, such as steering wheel angle, wheel speed, yaw velocity, etc., to detect any difference between the path requested by the steering wheel position and vehicle's actual path. When appropriate, the system selectively controls brakes, engine power, and even suspension settings to enhance control of the vehicle's direction and help keep it on course.

Independent studies conducted by the National Highway Traffic Safety Administration, the Insurance Institute for Highway Safety, and others have found StabiliTrak to be highly effective in reducing vehicle crashes. General Motors offers StabiliTrak systems on many of its passenger car and light truck models.

See your owner's manual for additional information about the operation of StabiliTrak.

Q. How do I use StabiliTrak?

A. StabiliTrak operates independently of the driver. You should continue to drive your StabiliTrak equipped vehicle with caution and care. GM's StabiliTrak system, StabiliTrak is designed to be as seamless as possible in operation, and part of the overall vehicle response to make a good vehicle better

Q. How does StabiliTrak work?

A. StabiliTrak has the ability to apply control forces to the vehicle independent of the driver. StabiliTrak uses sensors to continuously compare the path indicated by the steering wheel position to the vehicle's actual path. If a discrepancy is detected, StabiliTrak selectively controls vehicle brakes and engine torque to create a yaw moment that helps restore the vehicle's actual path to the path indicated by the steering wheel position. StabiliTrak has the ability to help correct both understeer (where the vehicle is not turning as much as the steering wheel position indicates) and oversteer (where the vehicle is turning more than the steering wheel position indicates).

Q. Will a tire change affect StabiliTrak?

A. Use of tires other than original equipment may affect StabiliTrak performance. StabiliTrak is designed to make the best use of available traction. The performance characteristics of the original equipment tires are part of the overall system effectiveness. When you replace tires check the recommendations in your owner's manual. On GM vehicles, the original equipment tires have a "TPC" (Tire Performance Criteria) code on the sidewall. Replacing the tires with the same "TPC" code will help assure proper StabiliTrak performance.

DRIVER OPERATED STABILITRAK BUTTON

An advanced computer controlled stability enhancement system assists the driver with directional control of the vehicle in difficult driving conditions. Each time the vehicle is started, the StabiliTrak system is fully on. StabiliTrak can be controlled by a button located on the left side of instrument panel. The condition system is displayed by a StabiliTrak indicator light and Driver Information Center (DIC) Message. Push once to disable Traction Control. Push and hold to disable both Traction Control and StabiliTrak. In this condition, StabiliTrak will automatically turn ON when the vehicle speed exceeds 35 mph (56km/hr) while the Traction Control remains OFF. Push again to enable Traction Control and StabiliTrak.

MAINTENANCE / WARRANTY

MAINTENANCE	2-Year Scheduled Maintenance includes only the following: 2-year/24,000-mile Scheduled Maintenance (whichever comes first; up to a total of two service events): ACDelco dexos1®Oil and ACDelco Oil Filter Change (excludes Spark EV) 4-wheel Tire Rotation (excludes dual rear wheel vehicles, all Corvette models and select Camaro models - ZL1 model and 1LE package cars – due to their unidirectional tires; see Owner's Manual for details) 27-Point Vehicle Inspection (MPVI)
WARRANTY	BUMPER-TO-BUMPER (INCLUDING TIRES)Coverage is for the first 3 years or 36,000 miles, whichever comes first.
POWERTRAIN	In addition to the 3-year/36,000 mile protection, many of your powertrain components are protected even further with coverage extending to 5 years or 60,000 miles, whichever comes first. Coverage for 2500 and 3500 Series Heavy Duty (HD) Pickups equipped with a 6.6L Duramax, and qualifying fleet vehicles is for 5 years or 100,000 miles, whichever comes first.details.
ENGINE	Engine coverage includes all internally lubricated parts, engine oil cooling hoses, and lines. Also included are all actuators and electrical components internal to the engine (e.g., Active Fuel Management valve, lifter and oil manifold) cylinder head, block, timing gears, timing chain, timing cover, oil pump/oil pump housing, OHC carriers, valve covers, oil pan, seals, gaskets, manifolds, flywheel, water pump, harmonic balancer, engine mount, turbocharger, and supercharger. Timing belts are covered until the first scheduled maintenance interval. Exclusions: Excluded from the powertrain coverage are sensors, wiring, connectors, engine radiator, coolant hoses, coolant, and heater core. Coverage on the engine cooling system begins at the inlet to the water pump and ends with the thermostat housing and/or outlet that attaches to the return hose. Also excluded is the starter motor, entire pressurized fuel system (in-tank fuel pump, pressure lines, fuel rail(s), regulator, injectors, and return line), as well as the Engine/ Powertrain Control Module and/or module programming.
DIESEL ENGINE/ COMPONENTS	Cylinder block and heads and all internal parts, intake and exhaust manifolds, timing gears, timing gear chain or belt and cover, flywheel, harmonic balancer, valve covers, oil pan, oil pump, water pump, fuel pump, engine mounts, seals, and gaskets. Parts of the Emissions Reduction System such as the emissions reduction fluid tank, injectors, sensors including NOx and exhaust, and the Exhaust Particulate Filter. Glow Plug Control System: Control/glow plug assembly, glow plugs, cold advance relay, and engine control module The fuel injection control module, integral oil cooler, transmission adapter plate, common fuel rails, fuel filter assembly, fuel temperature sensor, and function block.
TRANSMISSION/ TRANSAXLE	Transmission and transaxle coverage includes all internally lubricated parts, case, torque converter, mounts, seals and gaskets, as well as any electrical components internal to the transmission/transaxle. Also covered are any actuators directly connected to the transmission (slave cylinder, etc.). Exclusions: Exclusions from the powertrain coverage include cooling lines, hoses, radiator, sensors, wiring, and electrical connectors. Also excluded are the clutch and pressure plate, as well as any Transmission Control Module and/or module programming.
TRANSFER CASE	Transfer case coverage includes all internally lubricated parts, case, mounts, seals and gaskets, as well as any electrical components internal to the transfer case. Also covered are any actuators directly connected to the transfer case, as well as the encoder motor. Exclusions: Excluded from the powertrain coverage are transfer case cooling lines, hoses, radiator, sensors, wiring, and electrical connectors, as well as the transfer case control module and/or module programming.
DRIVE SYSTEMS	Drive system coverage includes all internally lubricated parts, final drive housings, axle shafts and bearings, constant velocity joints, propeller shafts and universal joints. All mounts, supports, seals, and gaskets, as well as any electrical components internal to the drive axle. Also covered are any actuators directly connected to the drive axle (e.g., front differential actuator). Exclusions: Excluded from the powertrain coverage are all wheel bearings, drive wheel front and rear hub bearings, locking hubs, drive system cooling, lines, hoses, radiator, sensors, wiring, and electrical connectors related to drive systems, as well as any drive system control module and or module programming.
SHEET METAL	GM vehicles are designed and built to resist corrosion. All body and sheet metal components are warranted against corrosion for 3 years or 36,000 miles, whichever comes first. Plus you're protected even further from rust-through corrosion for a minimum of 6 years/100,000 miles (whichever comes first). Application of additional rust-inhibiting materials is not required under the corrosion coverage and none is recommended. See your GM dealer for terms of this limited warranty.

MAINTENANCE / WARRANTY

EMISSION CONTROL SYSTEMS	Defects and performance for car and light-duty truck emission control systems are covered for the first 2 years or 24,000 miles, whichever comes first. From the first 2 years or 24,000 miles to 3 years or 36,000 miles defects in material or workmanship continue to be covered under the New Vehicle Limited Bumper-to-Bumper Warranty coverage. Specified major components are covered for the first 8 years or 80,000 miles, whichever comes first. Defects and performance for heavy duty truck emission control systems including those found in 6.6L Duramax® Diesel Engines are covered for the first 5 years or 50,000 miles, whichever comes first. - Refer to your Warranty and Owner Assistance Information booklet for California emission control system warranty details.
TIRES	The tires supplied with your vehicle are covered by General Motors against defects in material or workmanship under the Bumper-to-Bumper Limited Warranty coverage. Wear-out is not considered a defect, and it may occur before the vehicle warranty expires. In this case, the owner is responsible for purchasing replacement tires, or seeking coverage solely from the tire manufacturer. For vehicles within the Bumper-to-Bumper Limited Warranty coverage, defective tires will be replaced on a prorated adjustment basis according to the mileage-based schedule in your Warranty and Owner Assistance Information booklet. After your New-Vehicle Limited Warranty expires, you may still have prorated warranty coverage on your original equipment tires by the tire manufacturer.
TOWING	Towing is covered to the nearest Chevrolet dealer if your vehicle cannot be driven because of a warranted defect.
COURTESY TRANSPORTATION	If your vehicle requires warranty repairs during the Limited Powertrain Warranty coverage period (8 years/100,000 miles for repairs warrantable under the Hybrid/Electric Propulsion Limited Warranty), alternate transportation and/or reimbursement of certain transportation expenses may be available under the Courtesy Transportation Program. Several transportation options are available. Consult your dealer or refer to the Owner's Manual for details. Courtesy Transportation is not part of or included in the coverage provided by the New-Vehicle Limited Warranty. General Motors reserves the right to make any changes or discontinue the Courtesy Transportation program at any time without notification.
ROADSIDE ASSISTANCE	Chevrolet is proud to offer the response, security and convenience of the 24-Hour Roadside Assistance Program. Roadside Assistance is provided with all purchased or leased GM vehicles that are within the Powertrain Limited Warranty. Emergency Towing (from a public road or highway to nearest Chevrolet dealer) Lockout Service (keys locked inside vehicle) Flat Tire Changes (service to change a flat tire with the spare tire (if equipped)) Fuel Delivery (enough fuel for vehicle to get to the nearest service station) Jump-Starts (service to jumpstart a dead battery) During the 8 year or 100,000 miles Electric Propulsion warranty period, towing is covered to the nearest Chevrolet servicing dealer if your vehicle cannot be driven because of a warranted Electric Propulsion specific defect. Refer to your Owner's Manual for details, including reservation of rights, or consult your dealer/retailer. --For specific terms and conditions, please contact your Chevrolet Roadside Assistance Program advisor at 1-800-243-8872.
WHAT IS NOT COVERED	All the above items are not covered for damage due to accident, misuse, alteration, insufficient or improper maintenance, contaminated or poor-quality fuel or environmental and chemical exposure. For complete details, refer to your Warranty and Owner Assistance Information booklet. This is a supplement to the express conditions and warranties described in the Warranty and Owner Assistance Information booklet. Other coverages are not extended or altered due to this supplement. Passenger car, light-duty truck, crossover and van owners requiring a more comprehensive coverage than what is provided with the New-Vehicle Limited Warranty are encouraged to consider a Chevrolet Protection Plan. This plan is available through Chevrolet dealerships. For more information, see the Extended Protection section on www.chevrolet.com/owners/warranty.html.
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